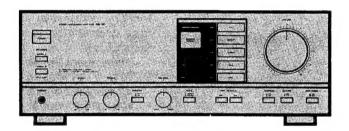
AKAI

STEREO INTEGRATED AMPLIFIER

AM-32 AM-52



Operator's Manual 5 This manual applies equally to models AM-32 and AM-52 except where otherwise noted. Illustration shows model AM-52. English Page 1~11 Français Page 12~23 Deutsch Seite 24~35 Nederlands Pagina 36~47 Español Página 48~59

This is the Akai Stereo Integrated Amplifier

Use this Akai amplifier in combination with the other components in the Akai Pro-series and you will have an excellent hi-fi system.

Features

- High power dual pole DC servo power amplifier
- SOURCE DIRECT switch (See page 9)
- SUBSONIC filter switch (See page 9)
- MUTING switch (See page 9)
- TAPE MONITOR switch (TAPE 1/TAPE 2 for AM-52/See page 7)
- STEREO/MONO MODE switch (AM-52/See page 9)
- A&B SPEAKER switches (See page 9)
- MC cartridge capable high-gain type PHONO equalizer amplifier (See page 9)
- LOUDNESS switch (See page 9)
- BASS and TREBLE tone controls (See page 9)
- Electronic speaker protection circuit (See page 5)
- Large diameter speaker terminals (See page 4)
- DAT (Digital Audio Tape) deck jacks (See page 8)
- Exclusive adaptor input and output jacks (See page 8)
- Large capacity power supply section
- Low-noise Dual FET coupled type phono equalizer and power amplifier

Table of contents

Warning	 . 1
What you should know to protect yourself	 . 2
Making the right connections	
Controls	
Let's enjoy the music	
Let's record	 . 7
Expanding Your Hi-Fi system	
The parts of the Akai Amplifier	 . 9
Problem? Let's check	 10
The speaker system	
Specifications	
·	

WARNING

To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

Power requirements

Power requirements for electrical equipment differ from area to area.

Please ensure that your machine meets the power requirements in your area.

If in doubt, consult a qualified electrician.

120 V, 60 Hz for USA and Canada

220 V, 50 Hz for Europe except UK

240 V, 50 Hz for UK and Australia

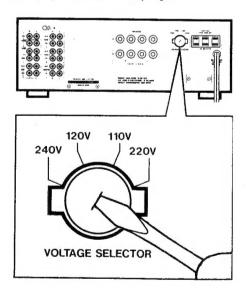
127 V/220 V, 50/60 Hz for Saudi Arabia.

110 V/120 V/220 V/240 V, 50 Hz/60 Hz convertible for other countries.

Voltage conversion (not on all models)

This machine can be set to 110 V, 120 V, 220 V or 240 V as required. Each machine is preset at the factory according to destination. However, if voltage conversion is necessary, follow the instructions below:

- 1. Disconnect the power cord.
- 2. With a flat bladed screwdriver, rotate the selector (located on the rear panel) so that the correct voltage for your area is displayed.



What you should know to protect yourself

Watch out! You might get an electric shock.

- Never touch the plug with wet hands.
- Always pull out by the plug and never the cord.
- Only let a qualified professional repair or reassemble the Akai Amplifier. An unauthorized person might touch the internal parts and receive a serious electric shock.
- Never allow a child to put anything, especially metal, into the Akai Amplifier.

Let's protect the Akai Amplifier too.

- Use only a household AC power source. Never use a DC power source.
- Make sure that the power consumption of each component does not exceed the wattage specified on the rear panel.
- If water is spilled on the Akai Amplifier, disconnect it and call your dealer.
- Make sure that the Akai Amplifier is well ventilated and away from direct sunlight. Be careful not to block the side ventilator of the Akai Amplifier.
- To avoid damages to the internal circuits and the external surface, keep away from heat (stoves, etc.)
- Avoid using spray type insecticide near the Akai Amplifier. It can damage the finish and might ignite suddenly.
- To avoid damaging the finish, never use denaturated alcohol, paint thinner or other similar chemicals to clean the Akai Amplifier.
- Place the Akai Amplifier on a flat and solid surface.
- If you don't plan to use the Akai Amplifier for a long period of time, disconnect the power cord.

To enjoy the Akai Amplifier for a long time, please read this operator's manual thoroughly.

CAUTION

To prevent electric shock, do not use this polarized AC power plug with an extension cord receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

3

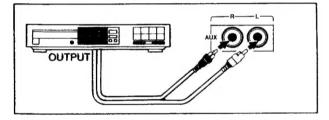
Before connecting

- Turn off all the components before connecting.
- · Connect the power cord last.
- Make sure that you connect the white PIN-plug to the left (white) jack and the red PIN-plug to the right (red) jack.
- Connect everything securely. Loose connections can lead to distortion.
- To prevent damage to the cords, connect and disconnect by holding the plug and not the cord.
- Make sure that the power cords and the connection cords do not get tangled with each other.
 This can lead to distortion.
- Make sure to connect the output cord of the player system to the PHONO jacks. Do not connect any other component (such as a CD player) to these PHONO jacks.
- If the turntable you are using has a ground wire, connect it to the ground terminal of the amplifier.

AUX jacks

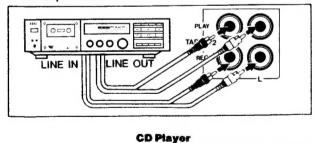
This is an auxiliary jack. Connect such components as a video disc player or cassette deck for playback to these jacks.

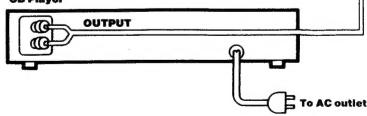
For dubbing from the input source to one tape deck (for AM-32) or two tape decks (for AM-52), we recommend using the AUX jacks for the input source.

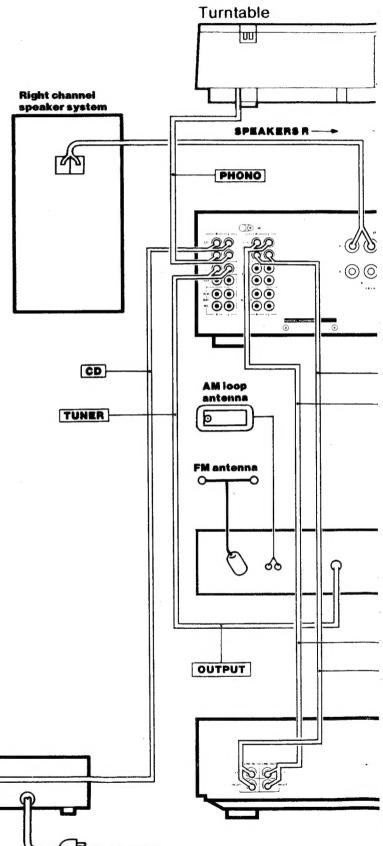


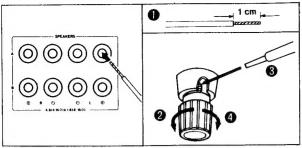
TAPE 2 jacks (for AM-52)

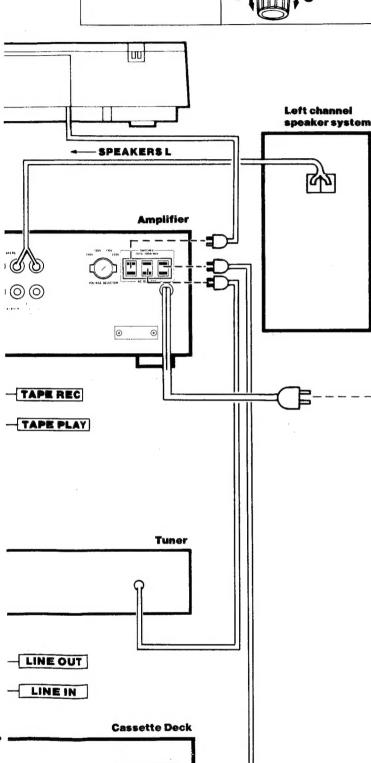
Connect the LINE IN jacks of the 2nd cassette deck (left and right) to the TAPE 2 REC jacks (left and right) of the Akai amplifier, and connect the LINE OUT jacks of the cassette deck (left and right) to the TAPE 2 PLAY jacks (left and right) of the Akai amplifier.











SPEAKER terminals

Be sure to connect the:

(+) wires to the (+) terminals (red);

wires to the terminals (black);

Left speaker to the Left (L) terminals; and Right speaker to the Right (R) terminals.

How to connect the speakers

- 1. Strip off 1 cm length of vinyl covering from the end of the speaker cord.
- Loosen the Red and Black speaker terminals by turning them counter-clockwise. (These terminals cannot be removed.)
- Twist wires firmly, then insert the speaker cords through the openings of the speaker terminal guards.
- 4. Turn the terminals clockwise to securely fasten the wires.

Note: For connection, we recommend the use of high power, large diameter-type speaker cords available in the Hi-Fi stores.

IMPORTANT: Do not cross connect speaker systems. Use either the A terminals or B terminals for connection of a pair of speakers. **Do not** connect one speaker to an A and the other to a B terminal.

Speaker impedance

Use speakers of 8 to 16 ohms impedance only. Refer to the marking on the amplifier's rearpanel.

Power cord

Connect this cord to a household AC outlet. If using the Akai Audio Timer, connect the power cord to its AC OUTLET.

AC OUTLETS (not on some models)

Connect the power cords of the components connected to the Akai amplifier.

SWITCHED:

The power to these **AC** outlets is cut when the Akai amplifier is turned off. Make sure that the total power consumption of the components connected to these outlets **does not exceed 200 watts**.

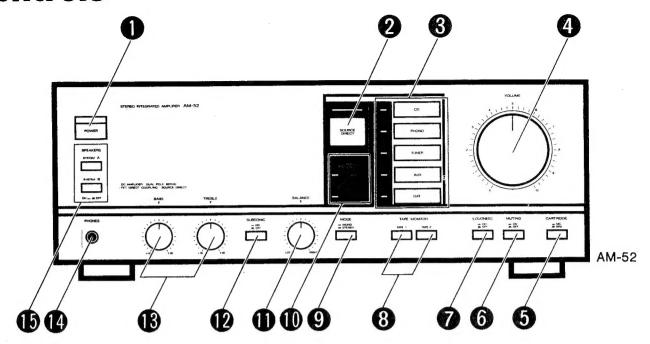
On the ADAPTOR jacks

The Akai amplifier is equipped with special ADAP-TOR jacks for connection of a graphic equalizer or audio processor. Refer to page 8.

The DAT jacks

Connect a DAT (Digital Audio Tape) desk or the 2nd (AM-32) or the 3rd (AM-52) cassette deck to these jacks. Refer to page 8.

5



POWER switch and Indicator

To turn on and off the amplifier. The indicator will light when the power is turned on.

- 2 SOURCE DIRECT switch and Indicator
 For clearer, low distortion playback of a compact disc, record, radio or DAT tape. The indicator will light when the switch is turned on.
 - * When the switch is turned on, the BASS and TREBLE tone controls and the BAL-ANCE control are ineffective.
- Input Select buttons (CD, PHONO, TUNER, AUX and DAT) and Indicators
 For selection of a playback source. The in-

For selection of a playback source. The indicator of the button you choose will light up when depressed.

4 VOLUME control

To increase or decrease playback volume level.

- **6** CARTRIDGE switch (= MC/ = MM)
 Adjust according to the type of cartridge you are using.
- **6** MUTING switch

To reduce volume instantly during playback without using the VOLUME control.

1 LOUDNESS switch

For instant compensation of tone setting at low volume level.

TAPE MONITOR switch (AM-52 only: TAPE 1/TAPE 2)

For cassette tape playback or monitoring during recording operation.

MODE switch (AM-52 only: - MONO/ - STEREO)

To select the playback mode. Normally set this switch to **STEREO**.

TAPE MONITOR indicator (AM-52 only: TAPE 1/TAPE 2)

Tells you the TAPE MONITOR switch is engaged.

BALANCE control

To adjust the left and right channel balance.

- SUBSONIC switch (ON/ OFF)

 To reduce unwanted ultra low frequency disturbance (less than 15 Hz) such as rumble during record playback.
- BASS and TREBLE Tone Controls
 To adjust the high note (treble) and low note (BASS) levels.
- PHONES jack
- For headphone listening.

 SPEAKER switch (SYSTEM A/SYSTEM B, ON/ OFF)

To select the speaker system.

Protection circuit

When the Akai amplifier is turned on, no signal will be output to the speakers for several seconds. This is due to the protection circuit which prevents output of noise when the Akai amplifier is turned on.

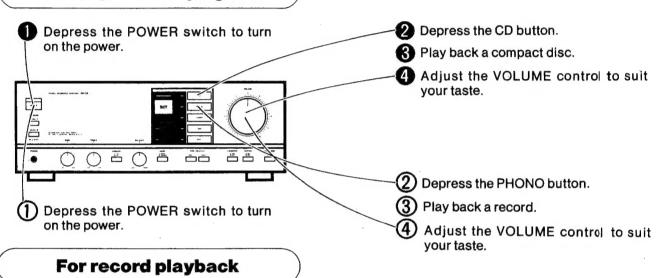
The protection circuit also functions during play-back to protect the speakers from overloading, and to protect the circuit from damages. When speakers with less than rated impedance are used, the protection circuit will short-circuit the + and - speaker cords. Therefore, should the sound be cut during playback:

- 1 Turn off the Akai amplifier.
- 2 Check for and correct the cause.
- 3 Turn on the Akai amplifier.

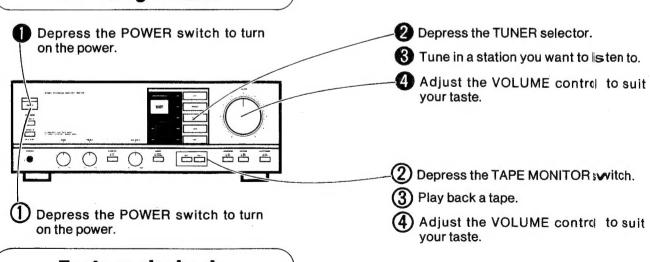
Let's Enjoy Music

Set the following controls before turning on the power of your amplifier. **VOLUME** control -Minimum (to 0) BALANCE control -Center (0) LOUDNESS switch -OFF (🚐) OFF MUTING switch-SUBSONIC switch-OFF MODE switch-STEREO (AM-52) **BASS and TREBLE** tone controls -Center position Set either A or B ON (-) if SPEAKERS switchesusing 1 system, or both ON if using 2 systems. Set both OFF (.) if using headphones.

For compact disc playback



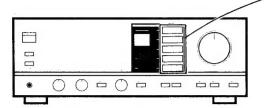
Listening to radio



- For tape playback
- * After playing back a tape, turn off the TAPE MONITOR switch, by depressing the button again.
- * Before playing back a tape, make sure that the SOURCE DIRECT switch is turned off.

Let's Record

7 Basic recording



- The VOLUME, BALANCE, LOUDNESS, and BASS and TREBLE tone controls can be adjusted when recording.
- If the tape deck is a 3 head deck, (one which has independent heads for erasing, recording, and playback), the just-recorded signals can be monitored by depressing the TAPE MONITOR switch (TAPE 1 or TAPE 2 for AM-52). The playback sound of the input source can be adjusted with the VOLUME control of the amplifier, but it will have no effect on the recording volume level. To adjust the recording volume level, use the tape deck's REC LEVEL control.

Select the recording **source** with the proper Input select buttons.

To record from ...

a compact disc → Depress the CD button a record → Depress the PHONO button the radio → Depress the TUNER button an auxiliary source → Depress the AUX button

DAT tape → Depress the DAT button

- 2 Play back the source.
- Prepare the tape deck or the DAT deck for recording.
 Begin recording.

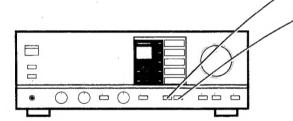
For the AM-52 user

Do not depress both the TAPE 1 and TAPE 2 TAPE MONITOR switches at the same time during recording.

If you want to monitor during recording when the two decks are in the recording mode, turn one of the TAPE MONITOR switches on and turn the other one off.

Tape Dubbing

To make a copy of a prerecorded cassette tape:



For the AM-52 user

Depress TAPE 1 of the TAPE MONITOR switch.

Depress TAPE 2 of the TAPE MONITOR switch so it is OFF, the indicator light will turn off.

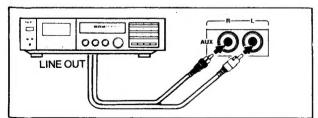
- Prepare the TAPE 1 deck for playback. Prepare the TAPE 2 deck for recording.
- A Begin recording.
- Do not depress the TAPE 1 switch during tape dubbing. If depressed, tape dubbing will not be performed.
- Tape dubbing from the TAPE 2 deck to the TAPE 1 deck cannot be done.

For the AM-32 user

For tape dubbing, connect a cassette deck for playback as follows:

Connection

Connect the LINE OUT jacks of the cassette deck to the AUX jacks of the amplifier with a connection cord.



- Depress the AUX button of the input select button.
- Prepare the cassette deck connected to the AUX jacks for playback.

 Prepare the cassette deck connected to the TAPE jacks for recording.
- (3) Begin recording
- If you want to monitor with the 3 head deck during tape dubbing, depress the TAPE MONI-TOR switch to on.

After monitored, depress the TAPE MONITOR switch once again to turn off.

Expanding Your Hi-Fi System

ADAPTOR jacks

To achieve more finely adjusted tone compensation, connect a separate graphic equalizer or audio processor to your Akai amplifier.

Audio Processor or Graphic Equalizer

OUT ADAPTOR

IN PROCESSOR OF Graphic Equalizer

INPUT OUTPUT

ADAPTOR

IN PROCESSOR OF Graphic Equalizer

OUT ADAPTOR

IN PROCESSOR OF Graphic Equalizer

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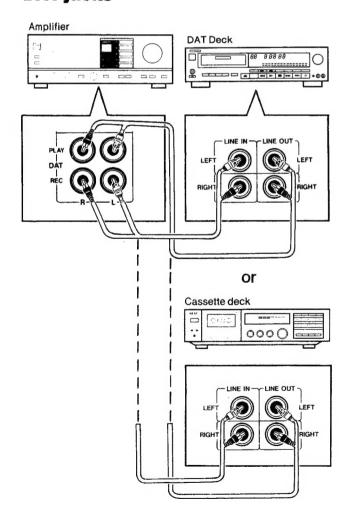
Remove the short pins from the amplifier's ADAP-TOR jacks.

Connect the amplifier's ADAPTOR OUT jacks to the Audio Processor's or Graphic Equalizer's INPUT jacks.

Connect the amplifier's ADAPTOR IN jacks to the Audio Processor's or Graphic Equalizer's OUTPUT jacks.

- Refer to the operator's manual of your audio processor or graphic equalizer for further details.
- Set your Akai amplifier's built-in BASS and TREBLE tone controls to their center position when using an audio processor or graphic equalizer.

DAT jacks



For recording and playback with a DAT deck.

Connect the amplifier's DAT REC jacks to the DAT deck's LINE IN jacks with a connection cord. Connect the amplifier's DAT PLAY jacks to the DAT deck's LINE OUT jacks with a connection cord.

Note:

- DAT deck: Digital Audio Tape deck
- You can use a cassette deck instead of the DAT deck. Connect it to the DAT jacks of the amplifier.

During tape playback or tape dubbing operation

You can record from a compact disc, a record, the radio or an auxiliary source with a DAT deck during tape playback or tape dubbing operation.

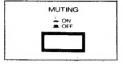
- 1 Select a recording source with an input select button such as the CD, PHONO, TUNER or AUX buttons.
- 2 Prepare for playback and prepare the DAT deck for recording.
- 3 Begin recording.
- If you want to monitor during recording depress the SOURCE DIRECT switch to turn ito n. After you have finished monitoring, depress the SOURCE DIRECT switch once again to turn it off.

The parts of the Akai Amplifier

9

If you want to reduce the volume instantly during playback

Depress the MUTING switch to ON ____.



To resume the normal listening volume level Depress the MUTING button once again to OFF

For the best sound reproduction from a compact disc, record, the radio or an auxiliary source

Depress the SOURCE DIRECT switch to ON — . The indicator will light.

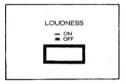


Note

When the SOURCE DIRECT switch is turned on, the BASS, TREBLE and BALANCE controls are ineffective. Tape playback can also not be performed when the switch is on but recording will operate.

Loudness compensation

The human ear is less sensitive to low frequencies at low volume levels. If these frequencies are not boosted or compensated, the sound will seem unnatural. A more

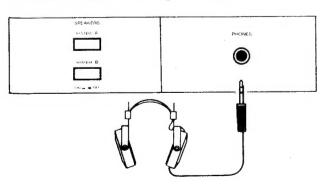


natural sound can be obtained by boosting the bass responses. This is called loudness compensation. When listening to music at low volume levels, depress the LOUDNESS switch on (—) for an instant boost of the bass.

Headphone use and SPEAKER switches

The SPEAKERS A and B buttons allow you to switch between the speakers connected to the A SPEAKERS terminals or the B SPEAKERS terminals on the rear panel of the Akai amplifier.

If only one set of speakers is connected to the rear SPEAKERS terminals, simply set the other button to the OFF (=) position. When listening through headphones, set both speaker buttons to their OFF (=) positions.



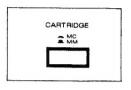
To adjust tone during playback

During record playback

If your player system uses the MC (Moving Coil) type cartridge

Set the CARTRIDGE selector switch to MC ___.
Otherwise set this switch to MM ___.

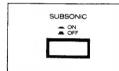
Before setting the CAR-TRIDGE switch, read cartridge's instruction sheet.



If the woofer cone vibrates during record playback

Set the SUBSONIC switch to ON ___.

* Set the SUBSONIC switch to OFF __ for other source playback.

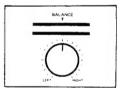


MODE switch (AM-52 only)

If you want monaural sound playback, set the MODE switch to MONO — . With the MODE switch in the off position, playback will be in stereo. When a normal sound VCR (monoaural sound type) is connected to one of the AUX jacks (left or right); Set the MODE switch to MONO — during playback. The same sound will heard from the left and right channel speaker system.

The BALANCE control

Use the BALANCE control when you feel that there is a deficiency in the left and right balance due to the speaker placement.



It is best to use a monaural source to test the balance. After setting the volume, tune in an AM station and turn the BAL-ANCE control to left or right to boost the volume in the right or left channel respectively.

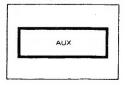
TAPE MONITOR switches (AM-52)

The TAPE MONITOR switches are independent of the other input select buttons. It is necessary to switch them OFF in order to listen to a different source.



The AUX button

Depress the AUX button to play back a component which is connected to your amplifier's AUX jacks; such as a cassette deck for playback or a video disc player.



Problem? Let's check

No sound

- Check to see if the power cord is connected securely to the household AC outlet.
- The input select button corresponding to the music source you want to listen to is engaged.
 - Press the appropriate input select button.
- The TAPE MONITOR switches are depressed when you want to monitor an audio source.
- The VOLUME control is set too low. Adjust the VOLUME control.
- The SPEAKERS switch is turned OFF
 (=).
 - Turn ON () the A and/or B SPEAKERS switch
- Protection circuit is engaged.
 Check the speaker cord connections and the speaker impedance.
- The ADAPTOR jack's short pins have been removed.
 - Replace the short pins when an audio processor or a graphic equalizer is not connected to the Akai amplifier.

If there is little or no sound during playback

The MUTING switch is depressed. Turn down the VOLUME control if necessary, then turn off the MUTING switch by depressing it. If the BASS, TREBLE and BALANCE controls do not work when adjusted or if tape playback cannot be heard when the TAPE MONITOR switch is depressed

The SOURCE DIRECT switch is depressed. Turn off the SOURCE DIRECT switch by depressing it.

If distorted or little sound is heard during record playback

The CARTRIDGE switch is not set at the appropriate position (— MC or — MM) for the cartridge that you are using.

Confirm the type of cartridge with its instruction sheet or specifications of the turntable, then set the CARTRIDGE switch accordingly.

If during playback, you cannot hear the bass fully or the sound does not seem to be in stereo.

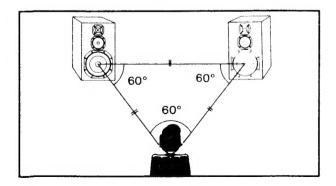
Check the speaker connections.
 Make sure that ⊕ wires are connected to
 ⊕ terminals and ⊖ wires to ⊖ terminals.

Should a problem persist, write down the model and serial numbers and all pertinent data regarding warranty coverage as well as a clear description of the existing trouble. Then contact your nearest authorized Akai Service Station.

The speaker system

Speaker placement

The playback characteristics of the speaker system(s) are greatly influenced by the placement and the room in which the speakers are used. For example, if the speaker system is placed near a hard wall, the bass will sound better but the treble might seem too strong. Play back some music without using the tone controls and move the speaker system around to find the best location. However, please keep the following in mind.



Place the speaker system:

- On a flat and solid surface which does not transmit too many vibrations.
- In a well ventilated, not very humid place.
- Away from direct sunlight and heat sources (stoves etc.)
- Away from your turntable and TV.

To prevent damage to the speaker system.

- Do not raise the volume too high.
- Turn off the Akai amplifier when charging or connecting the player system's cartridge.
- Lower the volume when changing radio stations and when cueing or reviewing tapes.
- Do not touch the speakers' diaphragms.

How to clean the speaker system(s)

- Clean the speaker system(s) with as oft, dry cloth
- If they are very dirty, use a mild detergent.
- To protect the diaphragms (the vibrating parts), do not spray liquid cleaner directly on the speaker system. Always spray it on a cht h first.
- Never use alcohol, paint thinner, chemically treated cloth or use a spray-type inecticide near the speaker system, as this will clamage the finish.

Specifications

11

Model	Model	
8 ohms 4 ohms	8 ohms 4 ohms	
Power Output	Power Output	
by FTC	by FTC	
(20 Hz - 20 kHz) 70 W/0.03% 90 W/0.05%	(20 Hz - 20 kHz) 50 W/0.03% 60 W/0.05%	
by DIN (1 kHz) 80 W/0.7% 120 W/0.7%	by DIN (1 kHz) 60 W/0.7% d0 W/0.7%	
Music Power135 W 270 W	Music Power100 W 200 W	
Power Bandwidth 5 Hz to 50 kHz/0.06%	Power Bandwidth 5 Hz to 50 kHz/0.06%	
Total Harmonic	Harmonic Total Harmonic	
Distortion 0.005% (at Source Direct Mode)	Distortion 0.005% (at Source Direct Mode)	
S/N (IHF-A)	S/N (IHF-A)	
PHONO MM84 dB	PHONO MM 82 dB	
PHONO MC64 dB	PHONO MC 62 dB	
CD, Tuner, DAT 99 dB (at Source Direct Mode)	CD, Tuner, DAT 97 dB (at Source Direct Mode)	
Residual Noise 0.1 mV	Residual Noise 0.1 mV	
Cross Talk (10 kHz)60 dB	Cross Talk (10 kHz) 60 dB	
Channel Separation	Channel Separation	
(10 kHz)50 dB	(10 kHz)50 dB	
Damping Factor	Damping Factor	
(1 kHz, 8 ohms)50	(1 kHz, 8 ohms)50	
Required Speaker Impedance	Required Speaker Impedance	
A or B 4 ohms to 16 ohms	A or B 4 ohms to 16 ohms	
A and B	A and B 8 ohms to 16 ohms	
Input Sensitivity/Impedance	Input Sensitivity/Impedance	
PHONO MM 2.0 mV/47 kohms	PHONO MM 2.0 mV/47 kohms	
PHONO MC 0.2 mV/100 ohms	PHONO MC 0.2 mV/100 ohms	
CD, Tuner,	CD, Tuner,	
Tape, DAT 150 mV/47 kohms	Tape, DAT 150 mV/47 kohms	
Max. Input Level	Max. Input Level	
PHONO MM 160 mV	PHONO MM 160 mV	
PHONO MC 16 mV	PHONO MC 16 mV	
Output Level/Impedance	Output Level/Impedance	
Tape 150 mV/1 kohms	Tape 150 mV/1 kohms	
Frequency Response	Frequency Response	
PHONO	PHONO	
(Deviation RIAA) ±0.5 dB	(Deviation RIAA) ±0.5 dB	
CD, Tuner, DAT 5 Hz to 100 kHz (-3 dB)	CD, Tuner, DAT 5 Hz to 100 kHz (—3 dB)	
(at Source Direct Mode)	(at Source Direct Mode)	
Tone control	Tone control	
Bass ±8.5 dB at 100 Hz	Bass ±8.5 dB at 100 Hz	
Treble ±9.0 dB at 10 kHz	Treble ±9.0 dB at 10 kHz	
Dimensions	Dimensions	
(16.7 × 6.1 × 14.8 inches)	$(16.7 \times 6.1 \times 14.8 \text{ inches})$	
Weight 11.4 kg (25.2 lbs)	Weight 11.2 kg (24.7 lbs)	
* For improvement purposes, specifications and design	* For improvement purposes, specifications and design	

^{*} For improvement purposes, specifications and design are subject to change without notice.

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